

**IN THE UNITED STATES DISTRICT COURT  
FOR THE DISTRICT OF DELAWARE**

TQ DELTA, LLC,	)	
	)	
Plaintiff,	)	C.A. No. _____
	)	
v.	)	
	)	<b>JURY TRIAL DEMANDED</b>
COMCAST CORPORATION and	)	
COMCAST CABLE	)	
COMMUNICATIONS, LLC,	)	
	)	
Defendants.		

**COMPLAINT FOR PATENT INFRINGEMENT**

Plaintiff, TQ Delta, LLC, for its Complaint against Defendants Comcast Corporation and Comcast Cable Communications, LLC (collectively, “Comcast” or “Defendants”), alleges as follows:

**THE PARTIES**

1. TQ Delta, LLC (“TQ Delta” or “Plaintiff”) is a limited liability company organized and existing under the laws of the State of Delaware and having a principal place of business at 805 Las Cimas Parkway, Suite 240, Austin, Texas 78746.

2. Upon information and belief, Defendant Comcast Corporation is a corporation organized and existing under the laws of the State of Pennsylvania, with its principal place of business at One Comcast Center, 1701 John F. Kennedy Blvd., Philadelphia, Pennsylvania 19103-2838.

3. On information and belief, Defendant Comcast Cable Communications, LLC is a company organized and existing under the laws of the State of Delaware, with its principal place

of business at One Comcast Center, 1701 John F. Kennedy Blvd., Philadelphia, Pennsylvania 19103-2838.

### **JURISDICTION AND VENUE**

4. This action is for patent infringement under the patent laws of the United States, 35 U.S.C. § 1 *et seq.*

5. This Court has subject matter jurisdiction over this dispute pursuant to 28 U.S.C. §§ 1331 and 1338(a).

6. This Court has personal jurisdiction over Defendants at least because Defendant Comcast Cable Communications, LLC is a company organized under the laws of the state of Delaware and because the Defendants make, use, sell, offer for sale, and/or import infringing products into this jurisdiction and/or otherwise perform and benefit from acts of infringement in this jurisdiction.

7. Venue is proper in this district pursuant to 28 U.S.C. §§ 1391 and 1400(b) at least because, among other reasons, the Defendant Comcast Cable Communications, LLC is a company organized under the laws of the state of Delaware and because the Defendants regularly conduct business in this venue.

### **BACKGROUND**

8. TQ Delta is the owner by assignment of a portfolio of patents relating to high-speed communications technologies.

9. The subject matter of TQ Delta's patents was originally developed for use in digital subscriber line ("DSL") communications standards. TQ Delta's inventions, however, have been adopted by other standard-setting organizations without notice or consideration to TQ Delta. For example, the Multimedia over Coax Alliance has more recently developed a

communication standard called “MoCA” that is used for high-speed communications over coaxial cable (e.g., existing cable wiring within the home of a cable TV subscriber).

10. Because neither TQ Delta nor any prior owner of the patents asserted in Counts I-VII participated in the Multimedia over Coax Alliance, TQ Delta is not subject to any intellectual property rights policies of the Multimedia over Coax Alliance.

11. Upon information and belief, Defendant Comcast Cable Communications, LLC was a founder of the Multimedia Over Coax Alliance in 2004, and is currently a member of the Multimedia Over Coax Alliance at the level of a Promoter (Board of Directors).

12. MoCA is used by pay TV operators, such as cable, satellite, and telco/IPTV operators, to deliver services to, and thereby generate substantial revenue from, their customers/subscribers. As described by the Multimedia over Coax Alliance:

MoCA technology is the worldwide standard for high performance and high reliability in the connected home, and has been adopted by cable, telco/IPTV and satellite operators worldwide. MoCA technology is also used to extend Wi-Fi® connectivity within the home.

13. The Multimedia over Coax Alliance has adopted industry standards relating to various MoCA technologies, including MoCA 1.0, MoCA 1.1, and MoCA 2.0 (collectively, “MoCA Standards”).

14. As a founder and/or promoter, Defendant Comcast Cable Communications, LLC was involved in the development of the MoCA 1.0, MoCA 1.1, and MoCA 2.0 Standards.

15. Defendants make, use, sell, offer for sale, and/or import systems, articles, methods, and services that operate in accordance with one or more of the MoCA Standards, such as, for example, Comcast’s digital cable and TV Online services, Comcast’s X1 Entertainment Operating System, Comcast’s AnyRoom® DVR service, Comcast’s Internet service, and set-top boxes, gateways, routers, modems, adapters, and networks (such systems, articles, methods, and

services, collectively, the “MoCA Products”). The Defendants also direct, control, or put into use MoCA Products.

16. The Defendants provide their MoCA Products to end-users and customers (collectively, “Customers”).

17. Upon information and belief, Defendants know that their MoCA Products operate in accordance with one or more of the MoCA Standards and that their MoCA Products will be deployed and used in or to create a MoCA network to provide MoCA services to their Customers.

18. The Defendants also provide services, specifications, and instructions for their MoCA Products, install (or support the installation of) and operate (or support or control the operation of) systems and networks using their MoCA Products, and ensure that their MoCA Products operate as intended (e.g., operate in accordance with one or more of the MoCA Standards).

19. The Defendants also make available, including on one or more of their websites, data sheets and other information that indicate that their MoCA Products operate in accordance with, and/or comply with, one or more of the MoCA Standards.

20. The Defendants use and deploy their MoCA Products to, for example, deliver services, in exchange for which the Defendants receive compensation, e.g., in the form of purchases or leases of MoCA Products, or monthly subscription fees from Customers.

21. The Defendants also make, own, and/or control the systems in which their MoCA Products are employed. For example, Defendants make systems employing MoCA Products by, for example, directing an agent or Customer to install or complete the system. As another example, when MoCA Products are installed into the home of a Customer, the Defendants

operate, control, and/or use the system employing MoCA Products to deliver services, in exchange for which the Defendants receive compensation, e.g., in the form of purchases or leases of MoCA Products, or monthly subscription fees from Customers.

22. The Defendants also own and/or control the MoCA Products that practice one or more of the MoCA Standards. For example, when the MoCA Products are deployed in the home of a Customer, the Defendants control the configuration and/or use of the MoCA Products, and charge the Customer for services that are delivered using one or more of the MoCA Standards.

### **DEFENDANTS' KNOWLEDGE OF THE ASSERTED PATENTS**

#### **Knowledge of the Asserted Patents Gained From the Complaint**

23. At least as of the time of service of this Complaint, Defendants had actual knowledge of the patents asserted in Counts I-VII of this Complaint. A reasonable opportunity for further investigation or discovery will likely show that at least shortly thereafter, the Defendants also knew that the normal, intended use of their MoCA Products that operate in accordance with the MoCA Standards infringe, contributorily infringe, and/or would induce actual infringement of the patents asserted in Counts I-VII of this Complaint.

#### **Knowledge of the Asserted Patents Prior to Filing of the Complaint Gained from Acts Relating to Plaintiff's Attempts to Negotiate a License to Plaintiff's Patents In Suit**

24. A reasonable opportunity for further investigation or discovery will likely show that on or about December 22, 2014, Defendant Comcast Corporation gained actual knowledge of the patents asserted in at least Counts I-II and IV-VII of this Complaint by virtue of actions taken in response to efforts by TQ Delta to license those patents.

25. As referenced below, TQ Delta attempted to negotiate a license under TQ Delta's MoCA patent portfolio and advised Defendant Comcast Corporation that a license under one or

more of its patents would be highly desirable to practice or otherwise comply with certain MoCA standards.

26. On December 19, 2014, TQ Delta sent a first letter to Defendant Comcast Corporation in care of Mr. James Finnegan (Defendant Comcast Corporation's Vice President, Intellectual Property Strategy), which included an overview of TQ Delta's MoCA patent portfolio and an invitation to open licensing discussions upon execution of a proposed confidentiality and standstill agreement.

27. On January 8, 2015, Mr. George D. Medlock, Jr. responded to the December 19 letter, stating that Comcast did "not agree with [TQ Delta's] position regarding the necessity of a license," and that it was "amenable to discussions outside the context of litigation." Comcast promised to "take [the December 19] letter under consideration and get back to [TQ Delta] shortly."

28. Further communications ensued, although Defendant Comcast Corporation was unwilling to agree to the confidentiality and standstill agreement proposed by TQ Delta. Though Defendant Comcast Corporation did ultimately agree to meet in person, and did meet in person on June 24, 2015, it did not meaningfully engage in licensing discussions.

29. Prior to the June 24 meeting, TQ Delta provided Defendant Comcast Corporation with detailed claim charts evidencing infringement of the patents that are the subject of Counts I-IV and VI-VII by, among other things, the Comcast X1 Entertainment Operating System and the Comcast AnyRoom DVR Service. Comcast accessed these claim charts at least as of June 5, 2015. On July 16, 2015, Comcast sent a letter to TQ Delta that effectively terminated any licensing discussions between TQ Delta and Comcast.

30. In view of the allegations set forth herein, a reasonable opportunity for further investigation or discovery will likely show that, prior to the filing of the complaint herein, Defendants had (1) actual knowledge of the patents asserted in Counts I-VII of this Complaint at least by investigating the patents owned by TQ Delta relating to the MoCA Standards and (2) actual knowledge that implementations and practice of MoCA Standards by their MoCA Products would infringe, contributorily infringe, and/or induce actual infringement of patents owned by TQ Delta, including the patents asserted in Counts I-VII of this Complaint.

**In the Alternative, Defendants Were Willfully Blind to the Existence of the Asserted Patents and Infringement Thereof**

31. In the alternative and to the extent Defendants did not gain actual knowledge in the manners described above, a reasonable opportunity for further investigation or discovery will likely show that, prior to Defendants' infringing conduct alleged herein, Defendants were willfully blind to the existence of the patents asserted in Counts I-VII of this Complaint, and their infringement of those patents, because:

- (a) As noted above, Defendant Comcast Corporation was informed by TQ Delta that its MoCA products infringe certain of the TQ Delta patents in suit, as well as other patents in the same patent families;
- (b) By virtue of the allegations set forth herein, Defendants subjectively believed that there was a high probability that TQ Delta owned patents that Defendants and their customers would necessarily infringe by implementing and practicing the MoCA Standards; and
- (c) Notwithstanding the unanswered inquiries from TQ Delta regarding its ownership of standard-essential MoCA patents, and other facts obtained from discovery or investigation showing that the practice or implementation of the subject MoCA

Standards involve the use of claimed intellectual property rights of patents owned by TQ Delta, Defendants took deliberate actions to purposefully avoid confirming the high probability that TQ Delta owns patents relating to MoCA technology, including the patents identified in Counts I-VII of this Complaint, and that Defendants' MoCA Products infringe, contributorily infringe, and/or induce actual infringement of those patents. These acts include a deliberate decision not to (1) seek a license from TQ Delta, (2) review the U.S. Patent and Trademark Office patent database or other suitable patent database, and/or (3) otherwise conduct an investigation to identify and review TQ Delta's patents, including those identified in Counts I-VII of this Complaint.

32. In the alternative and to the extent Defendants did not gain actual knowledge in the manners described above, a reasonable opportunity for further investigation or discovery will likely show that, since the time Defendant Comcast Corporation received TQ Delta's December 19, 2014, letter on December 22, 2014, Defendants were willfully blind to the existence of the patents asserted in Counts I-VII of this Complaint, and their infringement of those patents, because:

- (a) Defendant Comcast Corporation was notified by TQ Delta that TQ Delta's patents are "highly relevant to current and future MoCA products and services, including whole-home DVR products and services," and that "[i]n light of Comcast's MoCA offerings, TQD believes Comcast would benefit from a license to TQD's portfolio"; and
- (b) Notwithstanding TQ Delta's letters, further discovery and investigation will likely show that Defendants took deliberate actions to purposefully avoid confirming the



high probability that their MoCA Products that operate in accordance with the MoCA Standards infringe, contributorily infringe, and/or induce actual infringement of TQ Delta's patents, including the patents identified in Counts I-VII of this Complaint. These acts include without limitation an affirmative decision to delay and/or avoid substantive negotiations with TQ Delta.

## **DEFENDANTS' INFRINGEMENT OF THE ASSERTED PATENTS**

### **Phase Scrambling In Multicarrier Communication Systems Patents**

#### **COUNT I – INFRINGEMENT OF U.S. PATENT NO. 6,961,369**

33. TQ Delta hereby incorporates by reference paragraphs 1 through 32 of this Complaint.

34. On November 1, 2005, the United States Patent and Trademark Office duly and legally issued U.S. Patent No. 6,961,369 ("the '369 patent"), entitled "System and Method for Scrambling the Phase of the Carriers in a Multicarrier Communications System." TQ Delta is the owner and assignee of the '369 patent. A copy of the '369 patent is attached as Exhibit 1.

35. Defendants, in violation of 35 U.S.C. § 271(a), have been and are directly infringing the '369 patent by making, using, selling, offering to sell, and/or importing, without license or authority, MoCA Products and/or systems or methods that incorporate or employ MoCA Products that operate in accordance with the MoCA 1.0, 1.1, and/or 2.0 standards.

36. Upon information and belief, a reasonable opportunity for further investigation or discovery will likely show that, with knowledge or willful blindness of the existence of the '369 patent (at least as of the service of this Complaint and/or earlier as set forth in paragraphs 8-32

above), Defendants, in violation of 35 U.S.C. § 271(b), have knowingly induced, and are inducing, the direct infringement of one or more claims of the ‘369 patent by

- (1) (a) selling, leasing or otherwise providing to Customers,
- (b) providing Customers with support for, and/or
- (c) providing Customers with instructions for use of

Defendants’ MoCA Products and/or systems or methods that incorporate or employ MoCA Products,

- (2) with the intent to encourage those Customers to directly infringe the ‘369 patent by using Defendants’ MoCA Products and/or systems or methods that incorporate or employ MoCA Products and practicing methods in accordance with the MoCA 1.0, 1.1, and/or 2.0 standards,

whereby Defendants’ Customers have directly infringed the ‘369 patent at least by the normal and intended use of Defendants’ MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use in accordance with the MoCA 1.0, 1.1, and/or 2.0 standards.

37. Upon information and belief, Defendants know that their Customers infringe the ‘369 patent by the normal and intended use of Defendants’ MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use in accordance with at least the MoCA 1.0, 1.1, and/or 2.0 standards. *See, e.g.,* <http://www.soundandvision.com/news/071410comcast/> (accessed June 26, 2015) (*Comcast Goes Multi-Room*; “The multi-room DVR uses the MoCA (Multimedia over Coax Alliance platform which was codeveloped by Comcast, . . . .”); <http://www.comcast.com/anyroomdvr/> (accessed June 26, 2015) (*Say hello to the new AnyRoom<sup>®</sup> DVR*);

<http://www.dslreports.com/faq/comcasttv/Equipment> (accessed June 26, 2015 (“Xi3 IP-only clients . . . . These boxes are client-only, meaning that they are tunerless. They rely totally on IP (MoCA) networking from the main DVR and the DVR’s tuners to do all TV functions.”)); <http://customer.xfinity.com/help-and-support/cable-tv/x1-hub-vs-companion-box> (accessed June 26, 2015) (*e.g.*, Pace Xi3, Arris XG1, Pace XG1).

38. Defendants have provided and continue to provide product literature and information specifying that certain of their MoCA Products and/or systems or methods that incorporate or employ MoCA Products that operate in accordance with the MoCA 1.0, 1.1, and/or 2.0 standards, thereby indicating that Defendants specifically intended for their Customers to use the products and/or systems or methods in a way that would necessarily infringe standard-essential patent claims of the ‘369 patent.

39. Upon information and belief, a reasonable opportunity for further investigation or discovery will likely show that, with knowledge or willful blindness of the existence of the ‘369 patent (at least as of the service of this Complaint and/or earlier as set forth in paragraphs 8-32 above), Defendants, in violation of 35 U.S.C. § 271(c), have contributorily infringed, and are contributorily infringing, the ‘369 patent, by selling and/or providing MoCA Products and/or systems that incorporate or employ MoCA Products to their Customers in the United States for use in practicing the patented methods, knowing that their MoCA Products and/or systems that incorporate or employ MoCA Products are material to practicing the claimed inventions, are not staple articles or commodities of commerce suitable for substantial non-infringing use, and are especially made or especially adapted for use in an infringement of the ‘369 patent. Such discovery or investigation will likely show that Defendants sold, provided, or facilitated the provision of their MoCA Products and/or systems that incorporate or employ MoCA Products to

Customers knowing that the products and/or systems directly infringe the ‘369 patent when used for their normal and intended purpose, including by operating in accordance with one or more of MoCA Standards 1.0, 1.1, and/or 2.0. *See, e.g.,* <http://www.soundandvision.com/news/071410comcast/> (accessed June 26, 2015) (*Comcast Goes Multi-Room*; “The multi-room DVR uses the MoCA (Multimedia over Coax Alliance platform which was codeveloped by Comcast, . . . .”); <http://www.comcast.com/anyroomdvr/> (accessed June 26, 2015) (*Say hello to the new AnyRoom® DVR*); <http://www.dslreports.com/faq/comcasttv/Equipment> (accessed June 26, 2015) (“Xi3 IP-only clients . . . . These boxes are client-only, meaning that they are tunerless. They rely totally on IP (MoCA) networking from the main DVR and the DVR’s tuners to do all TV functions.”); <http://customer.xfinity.com/help-and-support/cable-tv/x1-hub-vs-companion-box> (accessed June 26, 2015) (*e.g.,* Pace Xi3, Arris XG1, Pace XG1). The products and/or systems are made for the specific purpose of operating according to the MoCA Standards and have no substantial non-infringing use. Defendants’ Customers have directly infringed the ‘369 patent at least by the normal and intended use of Defendants’ MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use in accordance with the MoCA 1.0, 1.1, and/or 2.0 standards.

40. As a result of Defendants’ infringement of the ‘369 patent, TQ Delta has suffered damages and is entitled to monetary relief to compensate for the infringement, but in no event less than a reasonable royalty for the use of the invention by Defendants, together with interest and costs as fixed by the Court.

## **COUNT II – INFRINGEMENT OF U.S. PATENT NO. 8,718,158**

41. TQ Delta hereby incorporates by reference paragraphs 1 through 32 of this Complaint.

42. On May 6, 2014, the United States Patent and Trademark Office duly and legally issued U.S. Patent No. 8,718,158 (“the ‘158 patent”), entitled “System and Method for Scrambling the Phase of the Carriers in a Multicarrier Communications System.” TQ Delta is the owner and assignee of the ‘158 patent. A copy of the ‘158 patent is attached as Exhibit 2.

43. Defendants, in violation of 35 U.S.C. § 271(a), have been and are directly infringing the ‘158 patent by making, using, selling, offering to sell, and/or importing, without license or authority, MoCA Products and/or systems or methods that incorporate or employ MoCA Products and practicing methods that operate in accordance with the MoCA 1.0, 1.1, and/or 2.0 standards.

44. Upon information and belief, a reasonable opportunity for further investigation or discovery will likely show that, with knowledge or willful blindness of the existence of the ‘158 patent (at least as of the service of this Complaint and/or earlier as set forth in paragraphs 8-32 above), Defendants, in violation of 35 U.S.C. § 271(b), have knowingly induced, and are inducing, the direct infringement of one or more claims of the ‘158 patent by

- (1) (a) selling, leasing or otherwise providing to Customers,
- (b) providing Customers with support for, and/or
- (c) providing Customers with instructions for use of

Defendants’ MoCA Products and/or systems or methods that incorporate or employ MoCA Products,

(2) with the intent to encourage those Customers to directly infringe the ‘158 patent by using Defendants’ MoCA Products and/or systems or methods that incorporate or employ MoCA Products and practicing methods in accordance with the MoCA 1.0, 1.1, and/or 2.0 standards,

whereby Defendants' Customers have directly infringed the '158 patent at least by the normal and intended use of Defendants' MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use in accordance with the MoCA 1.0, 1.1, and/or 2.0 standards.

45. Upon information and belief, Defendants know that their Customers infringe the '158 patent by the normal and intended use of Defendants' MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use in accordance with the MoCA 1.0, 1.1, and/or 2.0 standards. *See, e.g.,* <http://www.soundandvision.com/news/071410comcast/> (accessed June 26, 2015) (*Comcast Goes Multi-Room*; "The multi-room DVR uses the MoCA (Multimedia over Coax Alliance platform which was codeveloped by Comcast, . . . ."); <http://www.comcast.com/anyroomdvr/> (accessed June 26, 2015) (*Say hello to the new AnyRoom<sup>®</sup> DVR*); <http://www.dslreports.com/faq/comcasttv/Equipment> (accessed June 26, 2015 ("Xi3 IP-only clients . . . . These boxes are client-only, meaning that they are tunerless. They rely totally on IP (MoCA) networking from the main DVR and the DVR's tuners to do all TV functions.")); <http://customer.xfinity.com/help-and-support/cable-tv/x1-hub-vs-companion-box> (accessed June 26, 2015) (*e.g.,* Pace Xi3, Arris XG1, Pace XG1); <http://www.xfinity.com/x1> (accessed June 26, 2015).

46. Defendants have provided and continue to provide product literature and information specifying that certain of their MoCA Products and/or systems or methods that incorporate or employ MoCA Products operate in accordance with the MoCA 1.0, 1.1, and/or 2.0 standards, thereby indicating that Defendants specifically intended for their Customers to use the

products and/or systems or methods in a way that would necessarily infringe standard-essential patent claims of the ‘158 patent.

47. Upon information and belief, a reasonable opportunity for further investigation or discovery will likely show that, with knowledge or willful blindness of the existence of the ‘158 patent (at least as of the service of this Complaint and/or earlier as set forth in paragraphs 8-32 above), Defendants, in violation of 35 U.S.C. § 271(c), have contributorily infringed, and are contributorily infringing, the ‘158 patent, by selling and/or providing MoCA Products and/or systems that incorporate or employ MoCA Products to their Customers in the United States for use in practicing the patented methods, knowing that their MoCA Products and/or systems that incorporate or employ MoCA Products are material to practicing the claimed inventions, are not staple articles or commodities of commerce suitable for substantial non-infringing use, and are especially made or especially adapted for use in an infringement of the ‘158 patent. Such discovery or investigation will likely show that Defendants sold, provided, or facilitated the provision of their MoCA Products and/or systems that incorporate or employ MoCA Products to Customers knowing that the products and/or systems directly infringe the ‘158 patent when used for their normal and intended purpose, including by operating in accordance with one or more of MoCA Standards 1.0, 1.1, and/or 2.0. *See, e.g.,* <http://www.soundandvision.com/news/071410comcast/> (accessed June 26, 2015) (*Comcast Goes Multi-Room*; “The multi-room DVR uses the MoCA (Multimedia over Coax Alliance platform which was codeveloped by Comcast, . . . .”); <http://www.comcast.com/anyroomdvr/> (accessed June 26, 2015) (*Say hello to the new AnyRoom® DVR*); <http://www.dslreports.com/faq/comcasttv/Equipment> (accessed June 26, 2015) (“Xi3 IP-only clients . . . . These boxes are client-only, meaning that they are tunerless. They rely totally on IP (MoCA) networking from the main DVR and the DVR’s tuners to do all TV

functions.”); <http://customer.xfinity.com/help-and-support/cable-tv/x1-hub-vs-companion-box> (accessed June 26, 2015) (e.g., Pace Xi3, Arris XG1, Pace XG1); <http://www.xfinity.com/x1> (accessed June 26, 2015). The products and/or systems are made for the specific purpose of operating according to the MoCA Standards and have no substantial non-infringing use. Defendants’ Customers have directly infringed the ‘158 patent at least by the normal and intended use of Defendants’ MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use in accordance with the MoCA 1.0, 1.1, and/or 2.0 standards.

48. As a result of Defendants’ infringement of the ‘158 patent, TQ Delta has suffered damages and is entitled to monetary relief to compensate for the infringement, but in no event less than a reasonable royalty for the use of the invention by Defendants, together with interest and costs as fixed by the Court.

### **COUNT III – INFRINGEMENT OF U.S. PATENT NO. 9,014,243**

49. TQ Delta hereby incorporates by reference paragraphs 1 through 32 of this Complaint.

50. On April 21, 2015, the United States Patent and Trademark Office duly and legally issued U.S. Patent No. 9,014,243 (“the ‘243 patent”), entitled “System and Method for Scrambling Using a Bit Scrambler and a Phase Scrambler.” TQ Delta is the owner and assignee of the ‘243 patent. A copy of the ‘243 patent is attached as Exhibit 3.

51. Defendants, in violation of 35 U.S.C. § 271(a), have been and are directly infringing the ‘243 patent by making, using, selling, offering to sell, and/or importing, without license or authority, MoCA Products and/or systems or methods that incorporate or employ



MoCA Products and practicing methods that operate in accordance with the MoCA 1.0, 1.1, and/or 2.0 standards.

52. Upon information and belief, a reasonable opportunity for further investigation or discovery will likely show that, with knowledge or willful blindness of the existence of the ‘243 patent (at least as of the service of this Complaint and/or earlier as set forth in paragraphs 8-32 above), Defendants, in violation of 35 U.S.C. § 271(b), have knowingly induced, and are inducing, the direct infringement of one or more claims of the ‘243 patent by

- (1) (a) selling, leasing or otherwise providing to Customers,
- (b) providing Customers with support for, and/or
- (c) providing Customers with instructions for use of

Defendants’ MoCA Products and/or systems or methods that incorporate or employ MoCA Products,

- (2) with the intent to encourage those Customers to directly infringe the ‘243 patent by using Defendants’ MoCA Products and/or systems or methods that incorporate or employ MoCA Products and practicing methods in accordance with the MoCA 1.0, 1.1, and/or 2.0 standards,

whereby Defendants’ Customers have directly infringed the ‘243 patent at least by the normal and intended use of Defendants’ MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use in accordance with the MoCA 1.0, 1.1, and/or 2.0 standards.

53. Upon information and belief, Defendants know that their Customers infringe the ‘243 patent by the normal and intended use of Defendants’ MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use

in accordance with the MoCA 1.0, 1.1, and/or 2.0 standards. *See, e.g.,* <http://www.soundandvision.com/news/071410comcast/> (accessed June 26, 2015) (*Comcast Goes Multi-Room*; “The multi-room DVR uses the MoCA (Multimedia over Coax Alliance platform which was codeveloped by Comcast, . . . .”); <http://www.comcast.com/anyroomdvr/> (accessed June 26, 2015) (*Say hello to the new AnyRoom<sup>®</sup> DVR*); <http://www.dslreports.com/faq/comcasttv/Equipment> (accessed June 26, 2015 (“Xi3 IP-only clients . . . . These boxes are client-only, meaning that they are tunerless. They rely totally on IP (MoCA) networking from the main DVR and the DVR’s tuners to do all TV functions.”); <http://customer.xfinity.com/help-and-support/cable-tv/x1-hub-vs-companion-box> (accessed June 26, 2015) (*e.g.,* Pace Xi3, Arris XG1, Pace XG1); <http://www.xfinity.com/x1> (accessed June 26, 2015); <http://www.xfinity.com/Corporate/Learn/Bundles/bundles> (accessed June 26, 2015).

54. Defendants have provided and continue to provide product literature and information specifying that certain of their MoCA Products and/or systems or methods that incorporate or employ MoCA Products operate in accordance with the MoCA 1.0, 1.1, and/or 2.0 standards, thereby indicating that Defendants specifically intended for their Customers to use the products and/or systems or methods in a way that would necessarily infringe standard-essential patent claims of the ‘243 patent.

55. Upon information and belief, a reasonable opportunity for further investigation or discovery will likely show that, with knowledge or willful blindness of the existence of the ‘243 patent (at least as of the service of this Complaint and/or earlier as set forth in paragraphs 8-32 above), Defendants, in violation of 35 U.S.C. § 271(c), have contributorily infringed, and are contributorily infringing, the ‘243 patent, by selling and/or providing MoCA Products and/or systems that incorporate or employ MoCA Products to their Customers in the United States for

use in practicing the patented methods, knowing that their MoCA Products and/or systems that incorporate or employ MoCA Products are material to practicing the claimed inventions, are not staple articles or commodities of commerce suitable for substantial non-infringing use, and are especially made or especially adapted for use in an infringement of the ‘243 patent. Such discovery or investigation will likely show that Defendants sold, provided, or facilitated the provision of their MoCA Products and/or systems that incorporate or employ MoCA Products to Customers knowing that the products and/or systems directly infringe the ‘243 patent when used for their normal and intended purpose, including by operating in accordance with MoCA Standards 1.0, 1.1, and/or 2.0. *See, e.g.,* <http://www.soundandvision.com/news/071410comcast/> (accessed June 26, 2015) (*Comcast Goes Multi-Room*; “The multi-room DVR uses the MoCA (Multimedia over Coax Alliance platform which was codeveloped by Comcast, . . . .”); <http://www.comcast.com/anyroomdvr/> (accessed June 26, 2015) (*Say hello to the new AnyRoom® DVR*); <http://www.dslreports.com/faq/comcasttv/Equipment> (accessed June 26, 2015) (“Xi3 IP-only clients . . . . These boxes are client-only, meaning that they are tunerless. They rely totally on IP (MoCA) networking from the main DVR and the DVR’s tuners to do all TV functions.”); <http://customer.xfinity.com/help-and-support/cable-tv/x1-hub-vs-companion-box> (accessed June 26, 2015) (*e.g.,* Pace Xi3, Arris XG1, Pace XG1); <http://www.xfinity.com/x1> (accessed June 26, 2015); <http://www.xfinity.com/Corporate/Learn/Bundles/bundles> (accessed June 26, 2015). The products and/or systems are made for the specific purpose of operating according to the MoCA 1.0, 1.1, and/or 2.0 Standards and have no substantial non-infringing use. Defendants’ Customers have directly infringed the ‘243 patent at least by the normal and intended use of Defendants’ MoCA Products and/or systems or methods that incorporate or

employ MoCA Products, systems, and/or methods, including by use in accordance with the MoCA 1.0, 1.1, and/or 2.0 standards.

56. As a result of Defendants' infringement of the '243 patent, TQ Delta has suffered damages and is entitled to monetary relief to compensate for the infringement, but in no event less than a reasonable royalty for the use of the invention by Defendants, together with interest and costs as fixed by the Court.

**Diagnostic Mode and Test Parameter Patents**

**COUNT IV – INFRINGEMENT OF U.S. PATENT NO. 7,835,430**

57. TQ Delta hereby incorporates by reference paragraphs 1 through 32 of this Complaint.

58. On November 16, 2010, the United States Patent and Trademark Office duly and legally issued U.S. Patent No. 7,835,430 ("the '430 patent"), entitled "Multicarrier Modulation Messaging for Frequency Domain Received Idle Channel Noise Information." TQ Delta is the owner and assignee of the '430 patent. A copy of the '430 patent is attached as Exhibit 4.

59. Defendants, in violation of 35 U.S.C. § 271(a), have been and are directly infringing the '430 patent by making, using, selling, offering to sell, and/or importing, without license or authority, MoCA Products and/or systems or methods that incorporate or employ MoCA Products that operate in accordance with at least the MoCA 2.0 Standard.

60. Upon information and belief, a reasonable opportunity for further investigation or discovery will likely show that, with knowledge or willful blindness of the existence of the '430 patent (at least as of the service of this Complaint and/or earlier as set forth in paragraphs 8-32 above), Defendants, in violation of 35 U.S.C. § 271(b), have knowingly induced, and are inducing, the direct infringement of one or more claims of the '430 patent by

(1) (a) selling, leasing or otherwise providing to Customers,

- (b) providing Customers with support for, and/or
- (c) providing Customers with instructions for use of

Defendants' MoCA Products and/or systems or methods that incorporate or employ MoCA Products,

(2) with the intent to encourage those Customers to directly infringe the '430 patent by using Defendants' MoCA Products and/or systems or methods that incorporate or employ MoCA Products and practicing methods in accordance with at least the MoCA 2.0 Standard,

whereby Defendants' Customers have directly infringed the '430 patent at least by the normal and intended use of Defendants' MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use in accordance with at least the MoCA 2.0 Standard.

61. Upon information and belief, Defendants know that their Customers infringe the '430 patent by the normal and intended use of Defendants' MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use in accordance with at least the MoCA 2.0 Standard. *See, e.g.,* <http://www.soundandvision.com/news/071410comcast/> (accessed June 26, 2015) (*Comcast Goes Multi-Room*; "The multi-room DVR uses the MoCA (Multimedia over Coax Alliance platform which was codeveloped by Comcast, . . . ."); <http://www.comcast.com/anyroomdvr/> (accessed June 26, 2015) (*Say hello to the new AnyRoom<sup>®</sup> DVR*); <http://www.broadcom.com/blog/home-networking/moca-2-0-performance-boost-for-tvs-home-network/> (accessed June 26, 2015); <http://customer.xfinity.com/help-and-support/cable-tv/x1-hub-vs-companion-box> (accessed June

26, 2015) (*e.g.*, Pace Xi3, Arris XG1, Pace XG1); <http://www.xfinity.com/x1> (accessed June 26, 2015).

62. Defendants have provided and continue to provide product literature and information specifying that certain of their MoCA Products and/or systems or methods that incorporate or employ MoCA Products operate in accordance with at least the MoCA 2.0 Standard, thereby indicating that Defendants specifically intended for their Customers to use the products and/or systems or methods in a way that would necessarily infringe standard-essential patent claims of the ‘430 patent.

63. Upon information and belief, a reasonable opportunity for further investigation or discovery will likely show that, with knowledge or willful blindness of the existence of the ‘430 patent (at least as of the service of this Complaint and/or earlier as set forth in paragraphs 8-32 above), Defendants, in violation of 35 U.S.C. § 271(c), have contributorily infringed, and are contributorily infringing, the ‘430 patent, by selling and/or providing MoCA Products and/or systems that incorporate or employ MoCA Products to their Customers in the United States for use in practicing the patented methods, knowing that their MoCA Products and/or systems that incorporate or employ MoCA Products are material to practicing the claimed inventions, are not staple articles or commodities of commerce suitable for substantial non-infringing use, and are especially made or especially adapted for use in an infringement of the ‘430 patent. Such discovery or investigation will likely show that Defendants sold, provided, or facilitated the provision of their MoCA Products and/or systems that incorporate or employ MoCA Products to Customers knowing that the products and/or systems directly infringe the ‘430 patent when used for their normal and intended purpose, including by operating in accordance with at least the MoCA 2.0 Standard. *See, e.g.*, <http://www.soundandvision.com/news/071410comcast/> (accessed

June 26, 2015) (*Comcast Goes Multi-Room*; “The multi-room DVR uses the MoCA (Multimedia over Coax Alliance platform which was codeveloped by Comcast, . . . .”); <http://www.comcast.com/anyroomdvr/> (accessed June 26, 2015) (*Say hello to the new AnyRoom<sup>®</sup> DVR*); <http://www.broadcom.com/blog/home-networking/moca-2-0-performance-boost-for-tvs-home-network/> (accessed June 26, 2015); <http://customer.xfinity.com/help-and-support/cable-tv/x1-hub-vs-companion-box> (accessed June 26, 2015) (e.g., Pace Xi3, Arris XG1, Pace XG1); <http://www.xfinity.com/x1> (accessed June 26, 2015). The products and/or systems are made for the specific purpose of operating according to at least the MoCA 2.0 Standard and have no substantial non-infringing use. Defendants’ Customers have directly infringed the ‘430 patent at least by the normal and intended use of Defendants’ MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use in accordance with at least the MoCA 2.0 Standard.

64. As a result of Defendants’ infringement of the ‘430 patent, TQ Delta has suffered damages and is entitled to monetary relief to compensate for the infringement, but in no event less than a reasonable royalty for the use of the invention by Defendants, together with interest and costs as fixed by the Court.

#### **COUNT V – INFRINGEMENT OF U.S. PATENT NO. 8,238,412**

65. TQ Delta hereby incorporates by reference paragraphs 1 through 32 of this Complaint.

66. On August 7, 2012, the United States Patent and Trademark Office duly and legally issued U.S. Patent No. 8,238,412 (“the ‘412 patent”), entitled “Multicarrier Modulation Messaging for Power Level per Subchannel Information.” TQ Delta is the owner and assignee of the ‘412 patent. A copy of the ‘412 patent is attached as Exhibit 5.

67. Defendants, in violation of 35 U.S.C. § 271(a), have been and are directly infringing the '412 patent by making, using, selling, offering to sell, and/or importing, without license or authority, MoCA Products and/or systems or methods that incorporate or employ MoCA Products that operate in accordance with at least the MoCA 2.0 Standard.

68. Upon information and belief, a reasonable opportunity for further investigation or discovery will likely show that, with knowledge or willful blindness of the existence of the '412 patent (at least as of the service of this Complaint and/or earlier as set forth in paragraphs 8-32 above), Defendants, in violation of 35 U.S.C. § 271(b), have knowingly induced, and are inducing, the direct infringement of one or more claims of the '412 patent by

- (1) (a) selling, leasing or otherwise providing to Customers,
- (b) providing Customers with support for, and/or
- (c) providing Customers with instructions for use of

Defendants' MoCA Products and/or systems or methods that incorporate or employ MoCA Products,

(2) with the intent to encourage those Customers to directly infringe the '412 patent by using Defendants' MoCA Products and/or systems or methods that incorporate or employ MoCA Products and practicing methods in accordance with at least the MoCA 2.0 Standard,

whereby Defendants' Customers have directly infringed the '412 patent at least by the normal and intended use of Defendants' MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use in accordance with at least the MoCA 2.0 Standard.



69. Upon information and belief, Defendants know that their Customers infringe the ‘412 patent by the normal and intended use of Defendants’ MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use in accordance with at least the MoCA 2.0 Standard. *See, e.g.*, <http://www.soundandvision.com/news/071410comcast/> (accessed June 26, 2015) (*Comcast Goes Multi-Room*; “The multi-room DVR uses the MoCA (Multimedia over Coax Alliance platform which was codeveloped by Comcast, . . . .”); <http://www.comcast.com/anyroomdvr/> (accessed June 26, 2015) (*Say hello to the new AnyRoom<sup>®</sup> DVR*); <http://www.xfinity.com/x1> (accessed June 26, 2015).

70. Defendants have provided and continue to provide product literature and information specifying that certain of their MoCA Products and/or systems or methods that incorporate or employ MoCA Products operate in accordance with at least the MoCA 2.0 Standard, thereby indicating that Defendants specifically intended for their Customers to use the products and/or systems or methods in a way that would necessarily infringe standard-essential patent claims of the ‘412 patent.

71. Upon information and belief, a reasonable opportunity for further investigation or discovery will likely show that, with knowledge or willful blindness of the existence of the ‘412 patent (at least as of the service of this Complaint and/or earlier as set forth in paragraphs 8-32 above), Defendants, in violation of 35 U.S.C. § 271(c), have contributorily infringed, and are contributorily infringing, the ‘412 patent, by selling and/or providing MoCA Products and/or systems that incorporate or employ MoCA Products to their Customers in the United States for use in practicing the patented methods, knowing that their MoCA Products and/or systems that incorporate or employ MoCA Products are material to practicing the claimed inventions, are not staple articles or commodities of commerce suitable for substantial non-infringing use, and are

especially made or especially adapted for use in an infringement of the ‘412 patent. Such discovery or investigation will likely show that Defendants sold, provided, or facilitated the provision of their MoCA Products and/or systems that incorporate or employ MoCA Products to Customers knowing that the products and/or systems directly infringe the ‘412 patent when used for their normal and intended purpose, including by operating in accordance with at least the MoCA 2.0 Standard. *See, e.g.*, <http://www.soundandvision.com/news/071410comcast/> (accessed June 26, 2015) (*Comcast Goes Multi-Room*; “The multi-room DVR uses the MoCA (Multimedia over Coax Alliance platform which was codeveloped by Comcast, . . . .”); <http://www.comcast.com/anyroomdvr/> (accessed June 26, 2015) (*Say hello to the new AnyRoom<sup>®</sup> DVR*); <http://www.xfinity.com/x1> (accessed June 26, 2015). The products and/or systems are made for the specific purpose of operating according to at least the MoCA 2.0 Standard and have no substantial non-infringing use. Defendants’ Customers have directly infringed the ‘412 patent at least by the normal and intended use of Defendants’ MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use in accordance with at least the MoCA 2.0 Standard.

72. As a result of Defendants’ infringement of the ‘412 patent, TQ Delta has suffered damages and is entitled to monetary relief to compensate for the infringement, but in no event less than a reasonable royalty for the use of the invention by Defendants, together with interest and costs as fixed by the Court.

#### **COUNT VI – INFRINGEMENT OF U.S. PATENT NO. 8,432,956**

73. TQ Delta hereby incorporates by reference paragraphs 1 through 32 of this Complaint.

74. On April 30, 2013, the United States Patent and Trademark Office duly and legally issued U.S. Patent No. 8,432,956 (“the ‘956 patent”), entitled “Multicarrier Modulation Messaging for Power Level per Subchannel Information.” TQ Delta is the owner and assignee of the ‘956 patent. A copy of the ‘956 patent is attached as Exhibit 6.

75. Defendants, in violation of 35 U.S.C. § 271(a), have been and are directly infringing the ‘956 patent by making, using, selling, offering to sell, and/or importing, without license or authority, MoCA Products and/or systems or methods that incorporate or employ MoCA Products that operate in accordance with at least the MoCA 2.0 Standard.

76. Upon information and belief, a reasonable opportunity for further investigation or discovery will likely show that, with knowledge or willful blindness of the existence of the ‘956 patent (at least as of the service of this Complaint and/or earlier as set forth in paragraphs 8-32 above), Defendants, in violation of 35 U.S.C. § 271(b), have knowingly induced, and are inducing, the direct infringement of one or more claims of the ‘956 patent by

- (1) (a) selling, leasing or otherwise providing to Customers,
- (b) providing Customers with support for, and/or
- (c) providing Customers with instructions for use of

Defendants’ MoCA Products and/or systems or methods that incorporate or employ MoCA Products,

(2) with the intent to encourage those Customers to directly infringe the ‘956 patent by using Defendants’ MoCA Products and/or systems or methods that incorporate or employ MoCA Products and practicing methods in accordance with at least the MoCA 2.0 Standard,

whereby Defendants' Customers have directly infringed the '956 patent at least by the normal and intended use of Defendants' MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use in accordance with at least the MoCA 2.0 Standard.

77. Upon information and belief, Defendants know that their Customers infringe the '956 patent by the normal and intended use of Defendants' MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use in accordance with at least the MoCA 2.0 Standard. <http://www.soundandvision.com/news/071410comcast/> (accessed June 26, 2015) (*Comcast Goes Multi-Room*; "The multi-room DVR uses the MoCA (Multimedia over Coax Alliance platform which was codeveloped by Comcast, . . . ."); <http://www.comcast.com/anyroomdvr/> (accessed June 26, 2015) (*Say hello to the new AnyRoom<sup>®</sup> DVR*); <http://www.broadcom.com/blog/home-networking/moca-2-0-performance-boost-for-tvs-home-network/> (accessed June 26, 2015); <http://customer.xfinity.com/help-and-support/cable-tv/x1-hub-vs-companion-box> (accessed June 26, 2015) (*e.g.*, Pace Xi3, Arris XG1, Pace XG1); <http://www.xfinity.com/x1> (accessed June 26, 2015).

78. Defendants have provided and continue to provide product literature and information specifying that certain of their MoCA Products and/or systems or methods that incorporate or employ MoCA Products operate in accordance with at least the MoCA 2.0 Standard, thereby indicating that Defendants specifically intended for their Customers to use the products and/or systems or methods in a way that would necessarily infringe standard-essential patent claims of the '956 patent.

79. Upon information and belief, a reasonable opportunity for further investigation or discovery will likely show that, with knowledge or willful blindness of the existence of the ‘956 patent (at least as of the service of this Complaint and/or earlier as set forth in paragraphs 8-32 above), Defendants, in violation of 35 U.S.C. § 271(c), have contributorily infringed, and are contributorily infringing, the ‘956 patent, by selling and/or providing MoCA Products and/or systems that incorporate or employ MoCA Products to their Customers in the United States for use in practicing the patented methods, knowing that their MoCA Products and/or systems that incorporate or employ MoCA Products are material to practicing the claimed inventions, are not staple articles or commodities of commerce suitable for substantial non-infringing use, and are especially made or especially adapted for use in an infringement of the ‘956 patent. Such discovery or investigation will likely show that Defendants sold, provided, or facilitated the provision of their MoCA Products and/or systems that incorporate or employ MoCA Products to Customers knowing that the products and/or systems directly infringe the ‘956 patent when used for their normal and intended purpose, including by operating in accordance with at least the MoCA 2.0 Standard. <http://www.soundandvision.com/news/071410comcast/> (accessed June 26, 2015) (*Comcast Goes Multi-Room*; “The multi-room DVR uses the MoCA (Multimedia over Coax Alliance platform which was codeveloped by Comcast, . . . .”); <http://www.comcast.com/anyroomdvr/> (accessed June 26, 2015) (*Say hello to the new AnyRoom<sup>®</sup> DVR*); <http://www.broadcom.com/blog/home-networking/moca-2-0-performance-boost-for-tvs-home-network/> (accessed June 26, 2015); <http://customer.xfinity.com/help-and-support/cable-tv/x1-hub-vs-companion-box> (accessed June 26, 2015) (e.g., Pace Xi3, Arris XG1, Pace XG1); <http://www.xfinity.com/x1> (accessed June 26, 2015). The products and/or systems are made for the specific purpose of operating according to at least the MoCA 2.0 Standard and

have no substantial non-infringing use. Defendants' Customers have directly infringed the '956 patent at least by the normal and intended use of Defendants' MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use in accordance with at least the MoCA 2.0 Standard.

80. As a result of Defendants' infringement of the '956 patent, TQ Delta has suffered damages and is entitled to monetary relief to compensate for the infringement, but in no event less than a reasonable royalty for the use of the invention by Defendants, together with interest and costs as fixed by the Court.

**Low Power Mode Patent**

**COUNT VII – INFRINGEMENT OF U.S. PATENT NO. 8,611,404**

81. TQ Delta hereby incorporates by reference paragraphs 1 through 32 of this Complaint.

82. On December 17, 2013, the United States Patent and Trademark Office duly and legally issued U.S. Patent No. 8,611,404 ("the '404 patent"), entitled "Multicarrier Transmission System With Low Power Sleep Mode and Rapid-On Capability." TQ Delta is the owner and assignee of the '404 patent. A copy of the '404 patent is attached as Exhibit 7.

83. Defendants, in violation of 35 U.S.C. § 271(a), have been and are directly infringing the '404 patent by making, using, selling, offering to sell, and/or importing, without license or authority, MoCA Products and/or systems or methods that incorporate or employ MoCA Products that operate in accordance with at least the MoCA 2.0 Standard.

84. Upon information and belief, a reasonable opportunity for further investigation or discovery will likely show that, with knowledge or willful blindness of the existence of the '404 patent (at least as of the service of this Complaint and/or earlier as set forth in paragraphs 8-32

above), Defendants, in violation of 35 U.S.C. § 271(b), have knowingly induced, and are inducing, the direct infringement of one or more claims of the '404 patent by

- (1) (a) selling, leasing or otherwise providing to Customers,
- (b) providing Customers with support for, and/or
- (c) providing Customers with instructions for use of

Defendants' MoCA Products and/or systems or methods that incorporate or employ MoCA Products,

- (2) with the intent to encourage those Customers to directly infringe the '404 patent by using Defendants' MoCA Products and/or systems or methods that incorporate or employ MoCA Products and practicing methods in accordance with at least the MoCA 2.0 Standard,

whereby Defendants' Customers have directly infringed the '404 patent at least by the normal and intended use of Defendants' MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use in accordance with at least the MoCA 2.0 Standard.

85. Upon information and belief, Defendants know that their Customers infringe the '404 patent by the normal and intended use of Defendants' MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use in accordance with at least the MoCA 2.0 Standard.

<http://www.dslreports.com/faq/comcasttv/Equipment> (accessed June 26, 2015 ("Xi3 IP-only clients . . . . These boxes are client-only, meaning that they are tunerless. They rely totally on IP (MoCA) networking from the main DVR and the DVR's tuners to do all TV functions.")); <http://customer.xfinity.com/help-and-support/cable-tv/x1-hub-vs-companion-box> (accessed June

26, 2015) (*e.g.*, Pace Xi3, Arris XG1, Pace XG1); <http://www.xfinity.com/x1> (accessed June 26, 2015).

86. Defendants have provided and continue to provide product literature and information specifying that certain of their MoCA Products and/or systems or methods that incorporate or employ MoCA Products operate in accordance with at least the MoCA 2.0 Standard, thereby indicating that Defendants specifically intended for their Customers to use the products and/or systems or methods in a way that would necessarily infringe standard-essential patent claims of the '404 patent.

87. Upon information and belief, a reasonable opportunity for further investigation or discovery will likely show that, with knowledge or willful blindness of the existence of the '404 patent (at least as of the service of this Complaint and/or earlier as set forth in paragraphs 8-32 above), Defendants, in violation of 35 U.S.C. § 271(c), have contributorily infringed, and are contributorily infringing, the '404 patent, by selling and/or providing MoCA Products and/or systems that incorporate or employ MoCA Products to their Customers in the United States for use in practicing the patented methods, knowing that their MoCA Products and/or systems that incorporate or employ MoCA Products are material to practicing the claimed inventions, are not staple articles or commodities of commerce suitable for substantial non-infringing use, and are especially made or especially adapted for use in an infringement of the '404 patent. Such discovery or investigation will likely show that Defendants sold, provided, or facilitated the provision of their MoCA Products and/or systems that incorporate or employ MoCA Products to Customers knowing that the products and/or systems directly infringe the '404 patent when used for their normal and intended purpose, including by operating in accordance with at least the MoCA 2.0 Standard. <http://www.dslreports.com/faq/comcasttv/Equipment> (accessed June 26,



2015 (“Xi3 IP-only clients . . . . These boxes are client-only, meaning that they are tunerless. They rely totally on IP (MoCA) networking from the main DVR and the DVR’s tuners to do all TV functions.”); <http://customer.xfinity.com/help-and-support/cable-tv/x1-hub-vs-companion-box> (accessed June 26, 2015) (e.g., Pace Xi3, Arris XG1, Pace XG1); <http://www.xfinity.com/x1> (accessed June 26, 2015). The products and/or systems are made for the specific purpose of operating according to at least the MoCA 2.0 Standard and have no substantial non-infringing use. Defendants’ Customers have directly infringed the ‘404 patent at least by the normal and intended use of Defendants’ MoCA Products and/or systems or methods that incorporate or employ MoCA Products, systems, and/or methods, including by use in accordance with at least the MoCA 2.0 Standard.

88. As a result of Defendants’ infringement of the ‘404 patent, TQ Delta has suffered damages and is entitled to monetary relief to compensate for the infringement, but in no event less than a reasonable royalty for the use of the invention by Defendants, together with interest and costs as fixed by the Court.

#### **PRAYER FOR RELIEF**

WHEREFORE, TQ Delta, respectfully requests that the following relief:

A. That the Court enter judgment in favor of TQ Delta that Defendants have infringed TQ Delta’s ‘369 patent, ‘158 patent, ‘243 patent, ‘430 patent, ‘412 patent, ‘956 patent, and ‘404 patent;

B. That the Court enter an order declaring that Plaintiff has no RAND obligations and further enter a permanent injunction under 35 U.S.C. § 283 enjoining Defendants and their officers, directors, agents, servants, affiliates, employees, divisions, branches, subsidiaries, parents, and all others acting in active concert or participation with it, from infringement of TQ

Delta's TQ Delta's '369 patent, '158 patent, '243 patent, '430 patent, '412 patent, '956 patent, and '404 patent;

C. That the Court enter a judgment and order under 35 U.S.C. § 284 requiring Defendants to pay TQ Delta its damages, costs, expenses, and pre-judgment and post-judgment interest for Defendants' infringement of TQ Delta's TQ Delta's '369 patent, '158 patent, '243 patent, '430 patent, '412 patent, '956 patent, and '404 patent;

D. That the Court find this case exceptional under 35 U.S.C. § 285, and award TQ Delta its treble damages, along with its costs and fees in this action, including reasonable attorney's fees and pre-judgment interest thereon; and

E. That the Court grant TQ Delta such other and further relief as it deems just and proper.

### **DEMAND FOR JURY TRIAL**

TQ Delta, pursuant to Rule 38 of the Federal Rules of Civil Procedure, requests a trial by jury of any issues so triable.

Dated: July 17, 2015

Respectfully submitted,

FARNAN LLP

/s/ Brian E. Farnan

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